

What is claimed is:

1. An apparatus for detecting a light-transmissive sheet-like body, comprising:

5 a light source unit for emitting illuminating light;
 a reflector for reflecting the illuminating light;
 light detecting means for detecting the illuminating
light which is reflected by said reflector; and
 a converging optical system for leading the
10 illuminating light reflected by said reflector to said light
detecting means,

 wherein a light-transmissive sheet-like body placed
between said light source unit and said reflector is
detected based on information of said illuminating light
15 which is detected by said light detecting means.

2. An apparatus according to claim 1, wherein said
light detecting means comprises a two-dimensional area
sensor for obtaining two-dimensional distribution
20 information of said illuminating light.

3. An apparatus according to claim 1, wherein said
converging optical systems are spaced from each other along
the length of said light-transmissive sheet-like body.

25 4. An apparatus according to claim 3, further
comprising:

processing means for processing information obtained by said plurality of light detecting means to calculate the length of said light-transmissive sheet-like body.

5 5. An apparatus according to claim 1, wherein said converging optical system comprises a telecentric optical system for leading said illuminating light therethrough to said light detecting means.

10 6. An apparatus according to claim 5, wherein said telecentric optical system comprises:

 a condenser lens disposed on a side closer to said reflector; and

15 an aperture member disposed at a focal point of said condenser lens disposed on a side closer to said light detecting means.

20 7. An apparatus according to claim 1, wherein said converging optical system comprises a half-silvered mirror for leading the illuminating light emitted from said light source to said light-transmissive sheet-like body and leading the illuminating light reflected by said reflector to said light detecting means.

25 8. An apparatus according to claim 1, wherein said light source and said converging optical system are connected to each other by an optical fiber for leading the

illuminating light.

9. An apparatus according to claim 1, wherein said
light-transmissive sheet-like body is made of a
5 photosensitive material sensitive to visible light, said
illuminating light having a wavelength of at least 850 nm.